

SEQUENCE LISTING

<110> LIN, EDWARD H.
WU, XIFENG
XIE, KEPING

<120> QUANTITATIVE RT-PCR TO AC133 TO DIAGNOSE CANCER AND
MONITOR ANGIOGENIC ACTIVITY IN A CELL SAMPLE

<130> UTSC:755US

<140> UNKNOWN

<141> 2003-07-11

<150> 60/406,535

<151> 2002-08-28

<160> 14

<170> PatentIn Ver. 2.1

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<211> 31

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<213> Artificial Sequence

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Primer

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<223> Description of Artificial Sequence: Synthetic
Primer

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Ser Leu Leu Leu Leu Gly Leu Cys Gly Asn Ser Phe Ser Gly Gly Gln	
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cct tca tcc aca gat gct cct aag gct tgg aat tat gaa ttg cct gca	151
Pro Ser Ser Thr Asp Ala Pro Lys Ala Trp Asn Tyr Glu Leu Pro Ala	
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aca aat tat gag acc caa gac tcc cat aaa gct gga ccc att ggc att	199
Thr Asn Tyr Glu Thr Gln Asp Ser His Lys Ala Gly Pro Ile Gly Ile	
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Leu Phe Glu Leu Val His Ile Phe Leu Tyr Val Val Gln Pro Arg Asp	
55 60 65 70	
ttc cca gaa gat act ttg aga aaa ttc tta cag aag gca tat gaa tcc	295
Phe Pro Glu Asp Thr Leu Arg Lys Phe Leu Gln Lys Ala Tyr Glu Ser	
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Lys Ile Asp Tyr Asp Lys Pro Glu Thr Val Ile Leu Gly Leu Lys Ile	
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Val Tyr Tyr Glu Ala Gly Ile Ile Leu Cys Cys Val Leu Gly Leu Leu	
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Phe Ile Ile Leu Met Pro Leu Val Gly Tyr Phe Phe Cys Met Cys Arg	
120 125 130	
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Cys Cys Asn Lys Cys Gly Gly Glu Met His Gln Arg Gln Lys Glu Asn	
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Gly Pro Phe Leu Arg Lys Cys Phe Ala Ile Ser Leu Leu Val Ile Cys	
155 160 165	
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Ile Ile Ile Ser Ile Gly Ile Phe Tyr Gly Phe Val Ala Asn His Gln	
170 175 180	
gta aga acc cgg atc aaa agg agt cgg aaa ctg gca gat agc aat ttc	631
Val Arg Thr Arg Ile Lys Arg Ser Arg Lys Leu Ala Asp Ser Asn Phe	
185 190 195	
aag gac ttg cga act ctc ttg aat gaa act cca gag caa atc aaa tat	679
Lys Asp Leu Arg Thr Leu Leu Asn Glu Thr Pro Glu Gln Ile Lys Tyr	
200 205 210	
ata ttg gcc cag tac aac act acc aag gac aag gcg ttc aca gat ctg	727

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ccc	aac	atc	atc	cct	gtt	ctt	gat	gag	att	aag	tcc	atg	gca	aca	gcg	823
Pro	Asn	Ile	Ile	Pro	Val	Leu	Asp	Glu	Ile	Lys	Ser	Met	Ala	Thr	Ala	
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Ile	Lys	Glu	Thr	Lys	Glu	Ala	Leu	Glu	Asn	Met	Asn	Ser	Thr	Leu	Lys	
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Gln	Gly	Tyr	Gln	Ser	Leu	Asn	Asp	Ile	Pro	Asp	Arg	Val	Gln	Arg	Gln	
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acc cga ggc tgt gtc tcc aac acc gga ggc gtc ttc ctc atg gtt gga	1495				
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Tyr Thr Ser Lys Glu Leu Phe Arg Val Leu Asp Thr Pro Tyr Leu Leu					
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Glu Ser Leu Lys Val Asn Leu Asn Ile Phe Leu Leu Gly Ala Ala Gly					
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Arg Lys Asn Leu Gln Asp Phe Ala Ala Cys Gly Ile Asp Arg Met Asn					
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Leu Tyr Gln Ser Val Lys Ile Leu Gln Arg Thr Gly Asn Gly Leu Leu	
695 700 705 710	
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Glu Arg Val Thr Arg Ile Leu Ala Ser Leu Asp Phe Ala Gln Asn Phe	
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Ile Thr Asn Asn Thr Ser Ser Val Ile Ile Glu Glu Thr Lys Lys Tyr	
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760 765 770	
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Leu Asp Thr Ala Val Asp Val Phe Leu Cys Ser Tyr Ile Ile Asp Pro	
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Leu Asn Leu Phe Trp Phe Gly Ile Gly Lys Ala Thr Val Phe Leu Leu	
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gat tcg gag gac gtg tac gat gat gtt gaa act ata ccc atg aaa aat	2551
Asp Ser Glu Asp Val Tyr Asp Asp Val Glu Thr Ile Pro Met Lys Asn	
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Met Glu Asn Gly Asn Asn Gly Tyr His Lys Asp His Val Tyr Gly Ile	
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His Asn Pro Val Met Thr Ser Pro Ser Gln His	
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 Ala Gly Pro Ile Gly Ile Leu Phe Glu Leu Val His Ile Phe Leu Tyr
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 Val Val Gln Pro Arg Asp Phe Pro Glu Asp Thr Leu Arg Lys Phe Leu
 65 70 75 80
 Gln Lys Ala Tyr Glu Ser Lys Ile Asp Tyr Asp Lys Pro Glu Thr Val
 85 90 95
 Ile Leu Gly Leu Lys Ile Val Tyr Tyr Glu Ala Gly Ile Ile Leu Cys
 100 105 110
 Cys Val Leu Gly Leu Leu Phe Ile Ile Leu Met Pro Leu Val Gly Tyr
 115 120 125
 Phe Phe Cys Met Cys Arg Cys Asn Lys Cys Gly Gly Glu Met His
 130 135 140

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Phe	Val	Ala	Asn	His	Gln	Val	Arg	Thr	Arg	Ile	Lys	Arg	Ser	Arg	Lys	180	185		190
Leu	Ala	Asp	Ser	Asn	Phe	Lys	Asp	Leu	Arg	Thr	Leu	Leu	Asn	Glu	Thr	195	200	205	
Pro	Glu	Gln	Ile	Lys	Tyr	Ile	Leu	Ala	Gln	Tyr	Asn	Thr	Thr	Lys	Asp	210	215	220	
Lys	Ala	Phe	Thr	Asp	Leu	Asn	Ser	Ile	Asn	Ser	Val	Leu	Gly	Gly	Gly	225	230	235	240
Ile	Leu	Asp	Arg	Leu	Arg	Pro	Asn	Ile	Ile	Pro	Val	Leu	Asp	Glu	Ile	245	250		255
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Leu	Asp	Gly	Leu	Val	Gln	Gln	Gly	Tyr	Gln	Ser	Leu	Asn	Asp	Ile	Pro	355	360	365	
Asp	Arg	Val	Gln	Arg	Gln	Thr	Thr	Thr	Val	Val	Ala	Gly	Ile	Lys	Arg	370	375	380	
Val	Leu	Asn	Ser	Ile	Gly	Ser	Asp	Ile	Asp	Asn	Val	Thr	Gln	Arg	Leu	385	390	395	400
Pro	Ile	Gln	Asp	Ile	Leu	Ser	Ala	Phe	Ser	Val	Tyr	Val	Asn	Asn	Thr	405	410		415
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